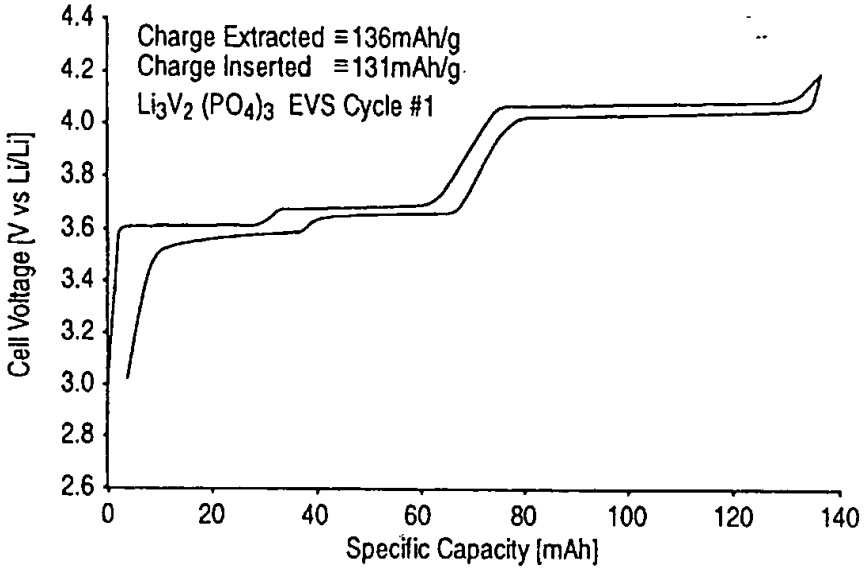
Charge Extracted ≡136mAh/g
Charge Inserted ≡131mAh/g
$Li_3V_2(PO_4)_3$ EVS Cycle #1
Cell Voltage [V vs Li/Li]
Specific Capacity [mAh]
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
0
20
40
60
80
100
120
140

FIG. 1

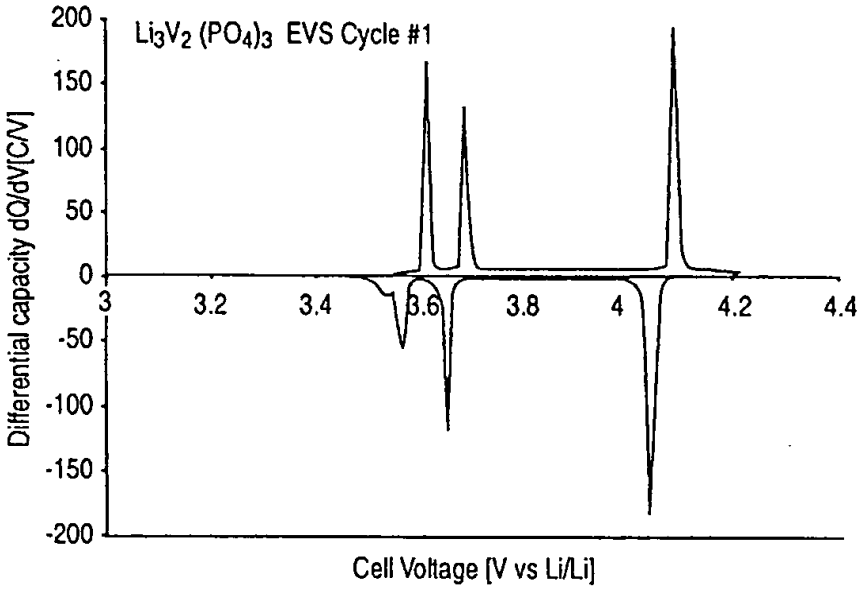
$Li_3V_2(PO_4)_3$ EVS Cycle #1
Differential capacity dQ/dV[C/V]
Cell Voltage [V vs Li/Li]
200
150
100
50
0
-50
-100
-150
-200
3
3.2
3.4
3.6
3.8
4
4.2
4.4

FIG. 2

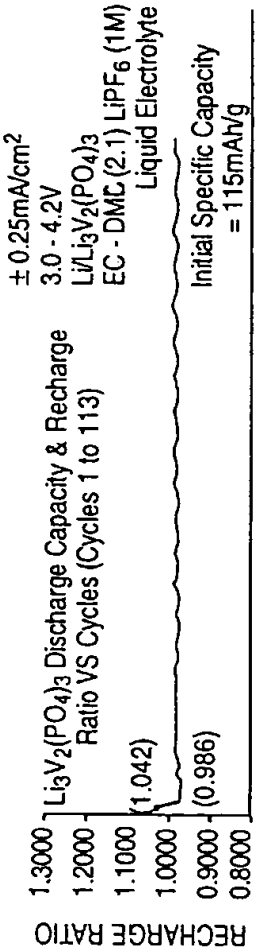
± 0.25mA/cm²
3.0 - 4.2V
Li/Li3V2(PO4)3
EC - DMC (2.1) LiPF6 (1M)
Liquid Electrolyte
Li3V2(PO4)3 Discharge Capacity & Recharge
Ratio VS Cycles (Cycles 1 to 113)
Initial Specific Capacity
= 115mAh/g
(1.042)
(0.986)
1.3000
1.2000
1.1000
1.0000
0.9000
0.8000
RECHARGE RATIO

FIG. 4A

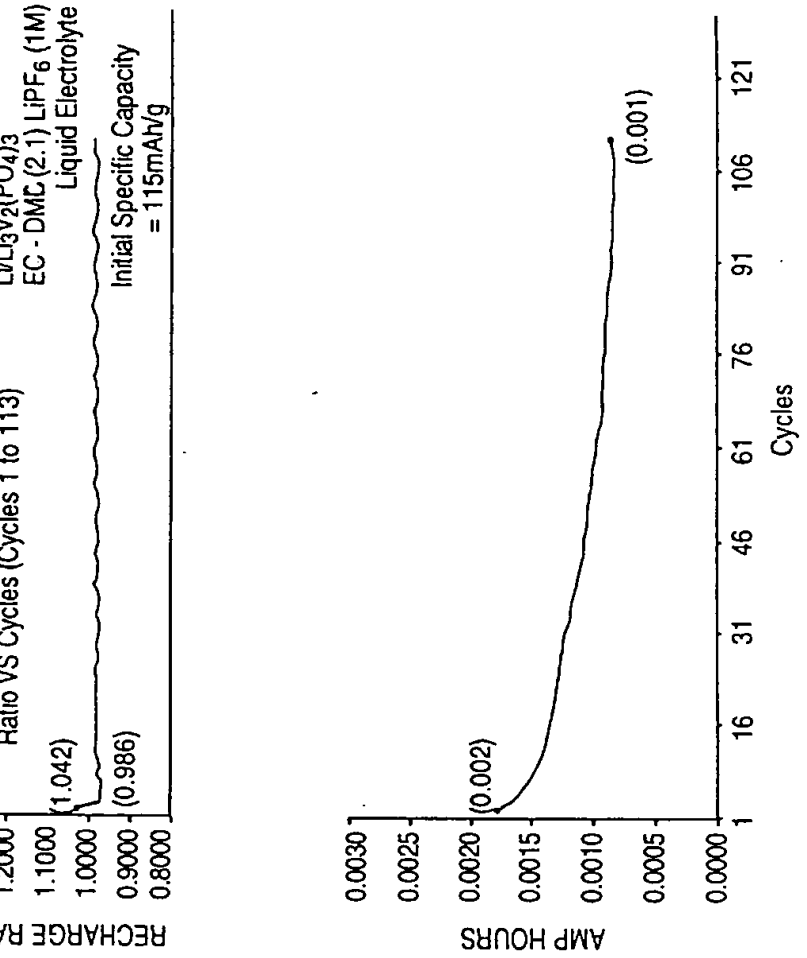
(0.002)
(0.001)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
AMP HOURS
1
16
31
46
61
76
91
106
121
Cycles

FIG. 4B

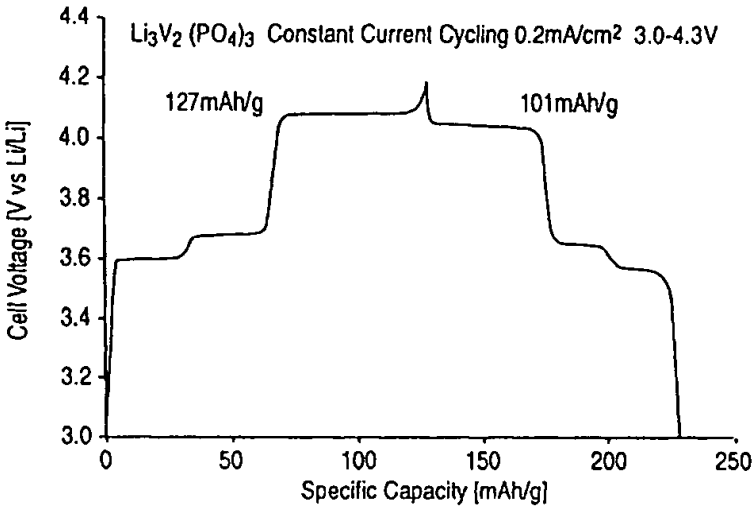

FIG. 3

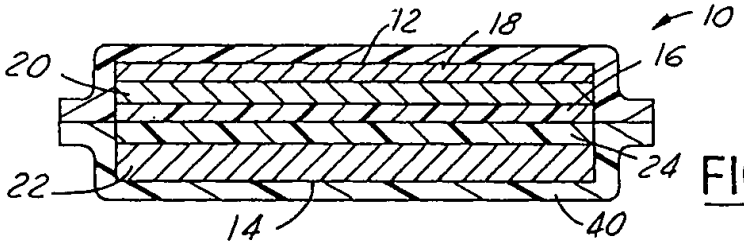

FIG. 5

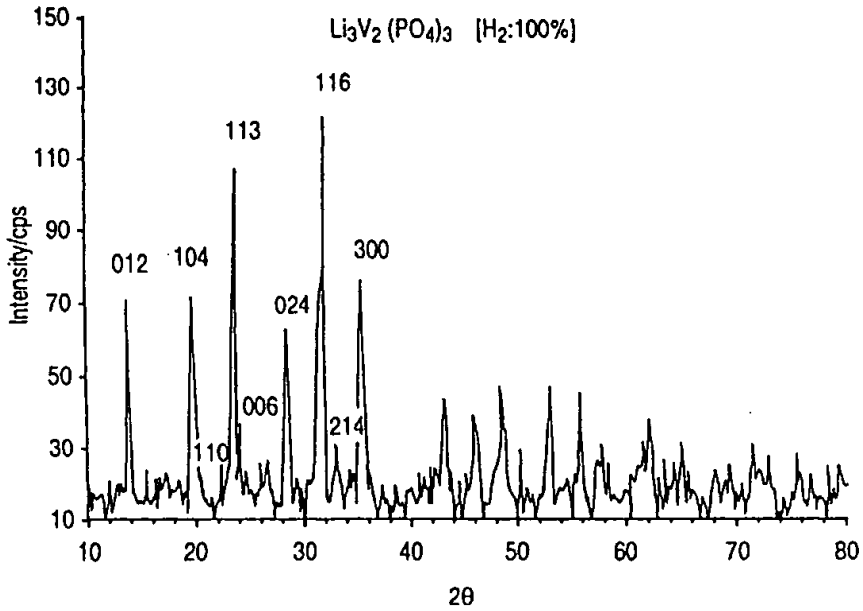

FIG. 6